



## **Adobe Photoshop CS5 Tutorial**

# GETTING STARTED

Adobe Photoshop CS5 is a popular image editing software that provides a work environment consistent with Adobe Illustrator, Adobe InDesign, Adobe Photoshop and other products in the Adobe Creative Suite. This tutorial is an introduction to using Adobe Photoshop. Here you will learn how to get started, how to use the interface, and how to modify images with basic editing skills.

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# 1. GETTING STARTED

I. Begin by opening Adobe Photoshop CS5.

On a PC, click **Start** > **Programs** > **Adobe** > **Photoshop CS5**, or click on the shortcut on the desktop.

On a Mac, click **Macintosh HD** > **Applications** > **Adobe Photoshop CS5** > **Photoshop CS5** shown in Figure I, or click the icon in the Dock.

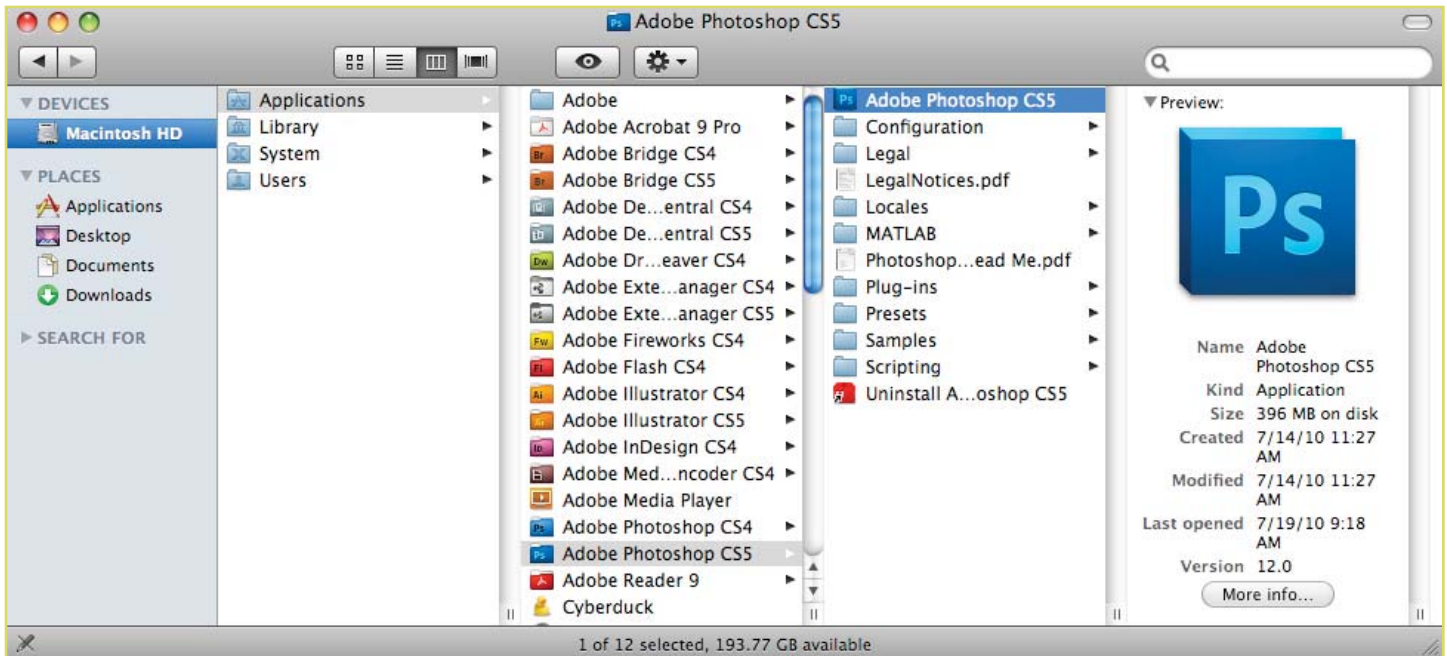


Figure I. Navigation to Photoshop CS5 on a Mac

## Setting up the document

Setting up your document correctly from the start will make your job much easier as you work through your project. This will require some advanced planning. For example, if your final output will be a brochure, you may need to set up your document to be horizontal and double-sided.

To create a new document, click **File** > **New**. This will open the Document Setup dialog box (Figure 2).

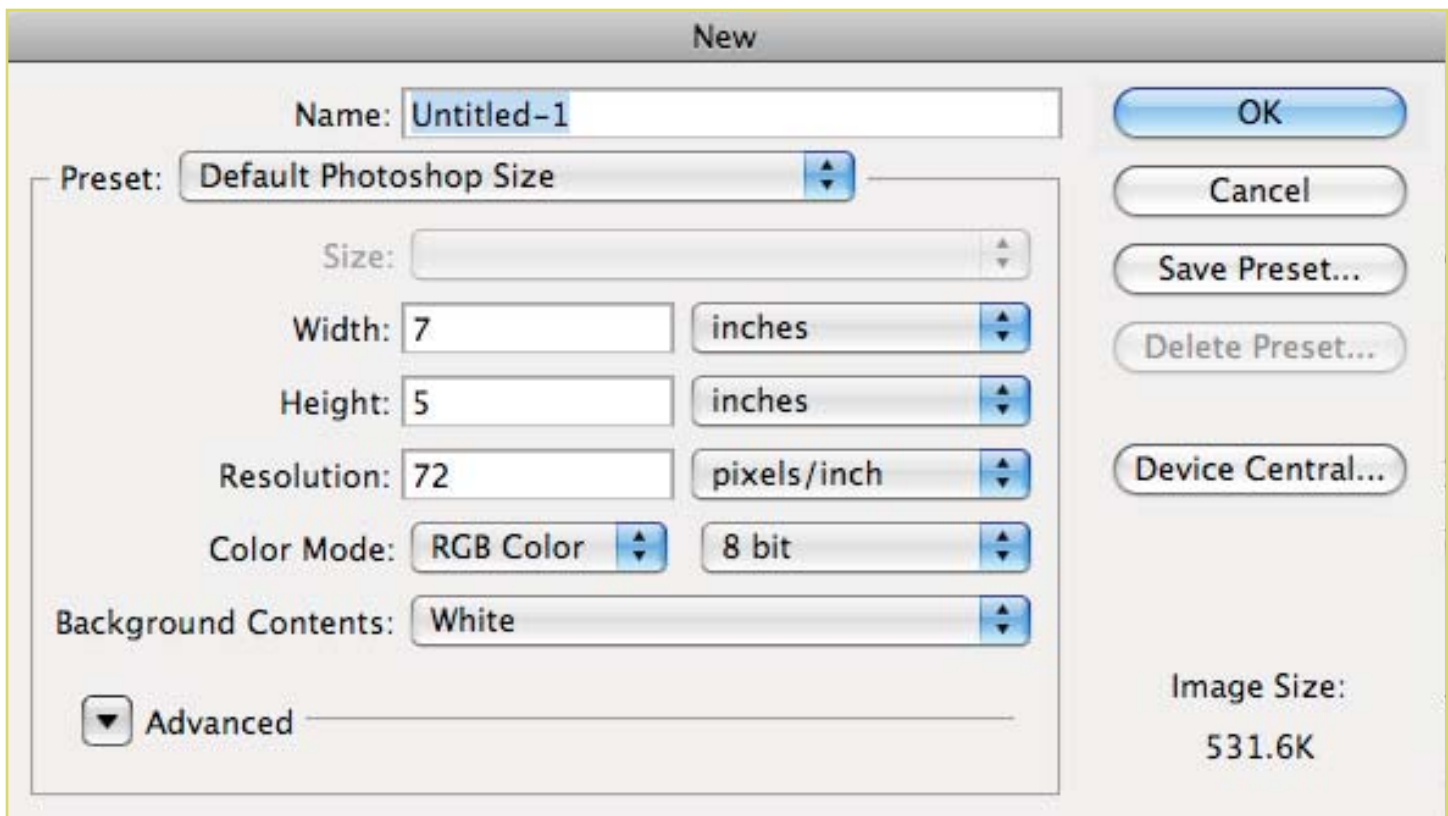


Figure 2. Document Setup dialog box

Here you will be able to name your file, set up the correct page size, and orientation for your document. Options include, but are not limited to:

### Page Size and Orientation

Change the page size by typing in new values for width and height. Page size represents the final size you want after bleeds or trimming other marks outside the page. In the Preset dropdown menu you can find such common sizes as letter, legal, tabloid, etc. Typing in exact values for **Height** and **Width** gives you more control over the size and orientation of your page.

### Resolution

Resolution is the number of pixels on a printed area of an image. The higher the resolution, the more pixels there are on the page, the better the quality of the image. However, high resolution increases the size of the file. The standard recommended resolution for printed images is 150-300, for Web images it is 72.

### Color Mode

Choose a color mode that will best fit your project. For example, when making a graphic for a web site choose RGB. When making an image for print choose CMYK.

### Background Contents

Choose the background: white, color or transparent. When you have entered all of your document settings click **Ok**.

### Opening an image from a disk

If the image you have is saved on a disk, select **File > Open**, and then navigate to the disk drive where your image is saved. Choose the image file and click **Open**. At this point, you may want to save your image under a different name so that you can always have the original to fall back on in case of a mistake. To save your file, select **File > Save As** and type in the new name of the file in the dialogue box..

## 2. Interface Layout

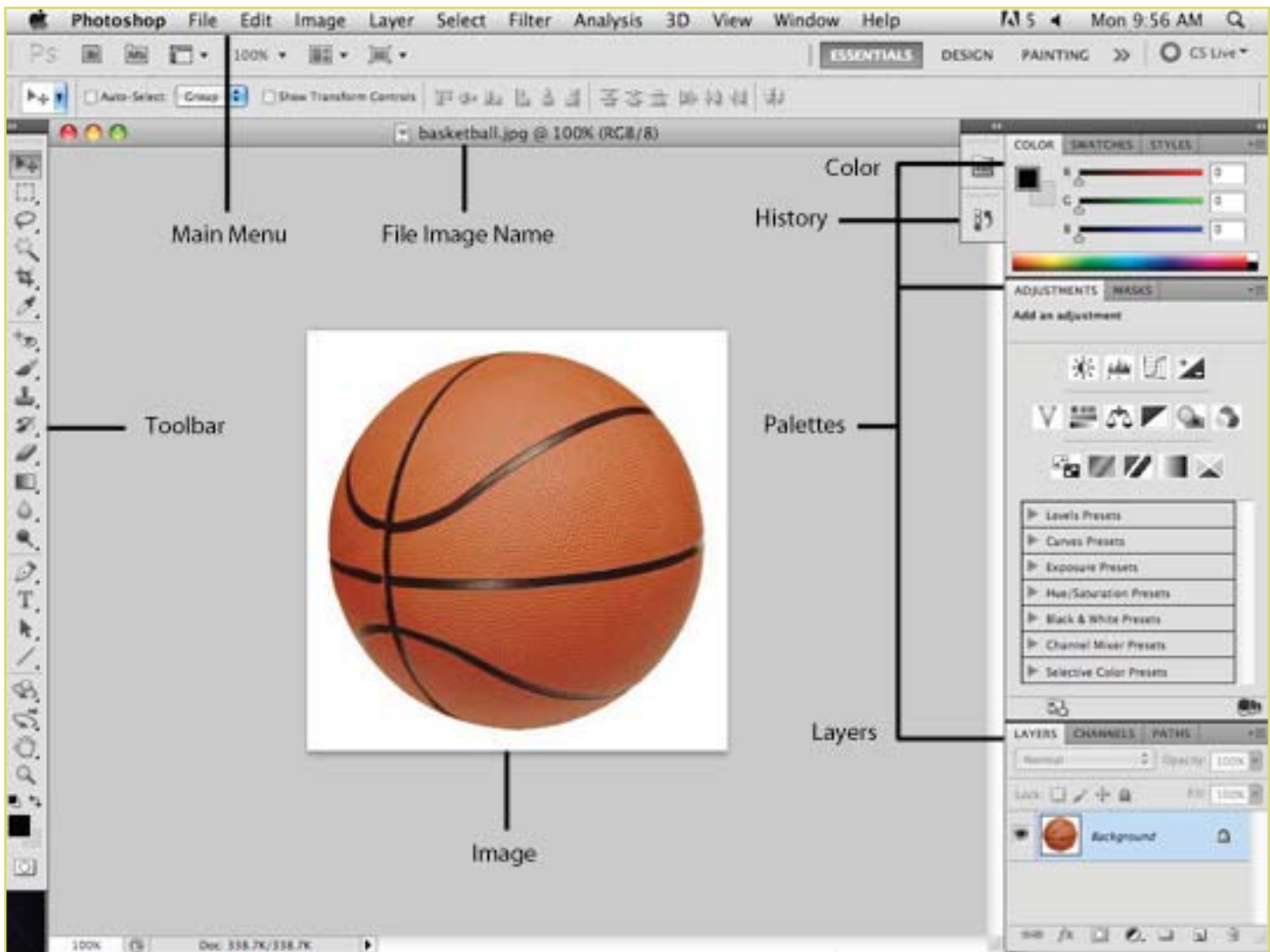


Figure 3. This is the layout of Adobe Photoshop interface.

### Menu Bar

If you look at the top of the screen you will see the Menu bar which contains all the main functions of Photoshop, such as **File**, **Edit**, **Image**, **Layer**, **Select**, **Filter**, **Analysis**, **3D**, **View**, **Window**, and **Help**.

### Toolbar

Most of the major tools are located in the Toolbar for easy access.

### The Image

The image will appear in its own window once you open a file.

### Image Name

The name of any image that you open will be at the top of the image window as shown above.

### Palettes

Palettes contain functions that help you monitor and modify images. By default, palettes are stacked together in groups. These are the palettes that are usually visible: **Color**, **Adjustments** and **Layers**. If none of the palettes are visible, go to **Window** in the **Menu** bar and choose the palettes you need.

### 3. Palettes

Below is the description of the most commonly used palettes in Adobe Photoshop CS5. Palettes used for more advanced image editing will be covered in the Adobe Photoshop CS5 Tutorial -Intermediate.

#### Color, Swatches, Style

The **Color** palette (Figure 4) displays the current foreground and background colors and RGB values for these colors. You can use the sliders to change the foreground and background colors in different color modes. You can also choose a color from the spectrum of colors displayed in the color ramp at the bottom of the palette.

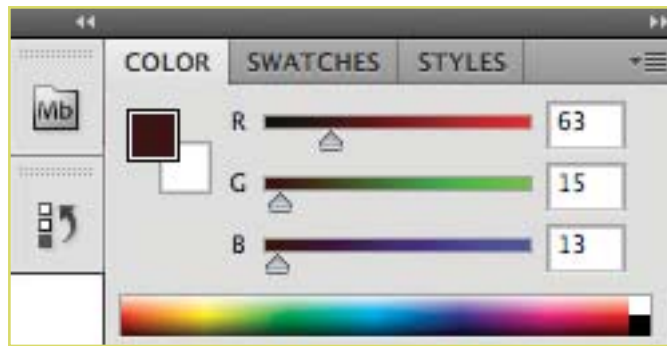


Figure 4. Color palette

In the **Swatches** palette (Figure 5) you can choose a foreground or background color and add a customized color to the library.



Figure 5. Swatches palette

The **Styles** palette (Figure 6) allows you to view, select, and apply preset layer styles. By default, a preset style replaces the current layer style. You can use the styles in the palette or add your own using the **Create New Style** icon.

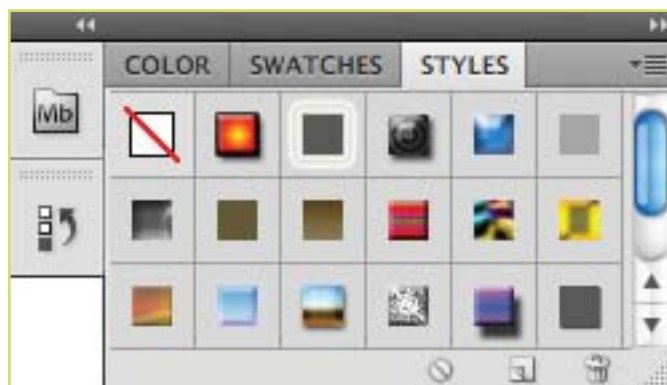


Figure 6. Styles palette

## History

The **History** palette (Figure 7) stores and displays each action performed allowing you jump to any recent stage of the image alteration. The alterations should be created during the current working session; after saving or closing the document the History palette clears all the contents. Each time you apply a change to an image, the new state of that image is added to the palette. It is important to know that once you click on any of the previous stages, all the changes that were made after it will be lost.

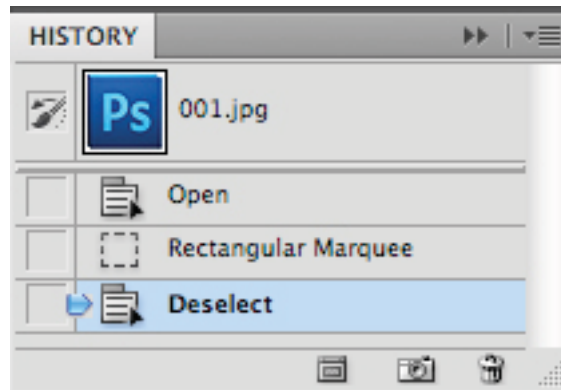


Figure 7. History palette

## Adjustments

The **Adjustment** layers palette give you the ability to apply an effect to a group of layers in Photoshop, and then you can edit that effect later, while preserving the original layers.

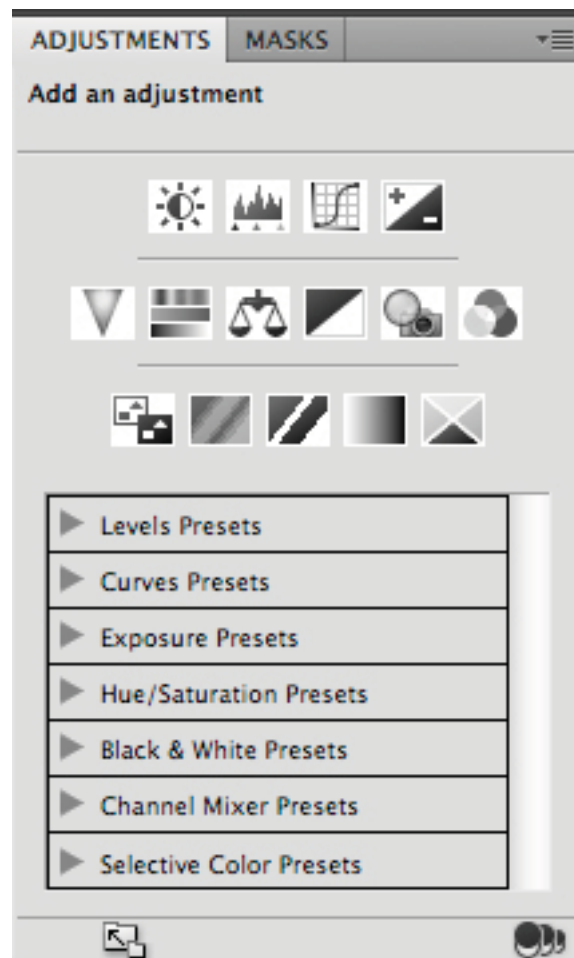


Figure 8. Adjustments palette

## Layers

**Layers** let you organize your work into distinct levels that can be edited and viewed as individual units. Every Photoshop CS5 document contains at least one layer. Creating multiple layers lets you easily control how your artwork is printed, displayed, and edited. You will use the **Layers** palette (Figure 6) often while creating a document, so it is crucial to understand what it does and how to use it.

- A) **Layer Visibility** -The eye shows that the selected layer is visible. Click on or off to see or to hide a layer.
- B) **Layer Locking Options** -Click the checkered square icon to lock Transparency; click the brush icon to lock the Image; click the arrow icon to lock the Position; click the lock icon to lock all options.
- C) **Layer Blending Mode** -Defines how the layer's pixels blend with underlying pixels in the image. By choosing a particular blending mode from the dropdown menu you can create a variety of special effects.
- D) **Opacity** -By typing in a value or dragging a slider you can specify the transparency of the entire layer.
- E) **Fill** -By typing in a value or dragging the slider you can specify the transparency. Layers Palette color of the image or object.

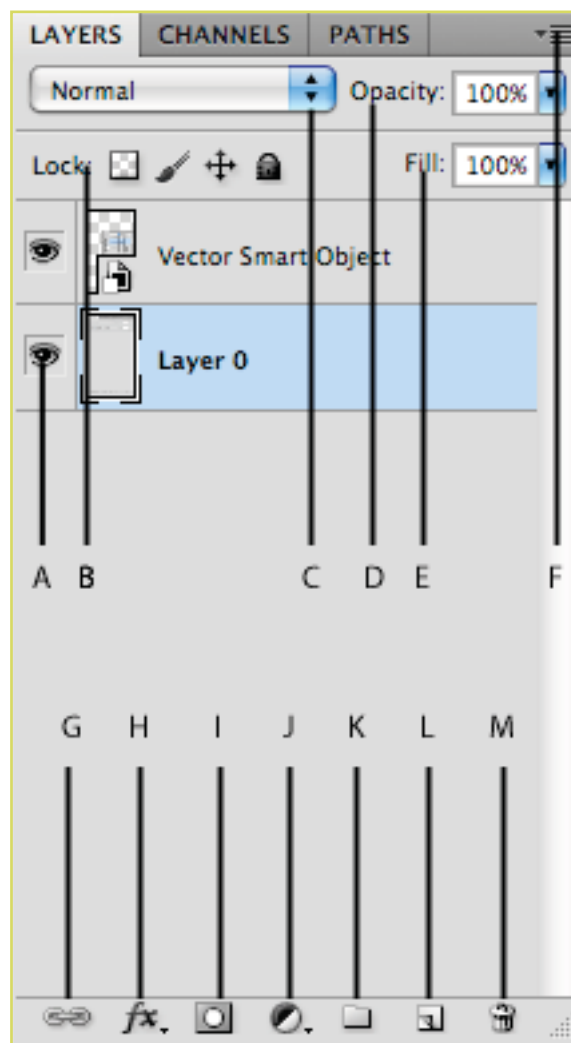


Figure 9. Layer palette



F) **Layer Options Menu** -Click the black triangle to see the following options: New Layer, Duplicate Layer, Delete Layer, Layer Properties, etc. Some of the options are presented as icons at the bottom of the Layers palette.

G) **Link Layers** – Can be used to link layers together.

H) **Layer Styles** -If a layer has a style, an “F” icon shows at the bottom of the **Layers** palette. Click the little black triangle to see style options.

I) **Layer Mask** -A grayscale image, with parts painted in black hidden, parts painted in white showing, and parts painted in gray shades showing in various levels of transparency.

J) **Create New Fill or Adjustment Layer** -Have the same opacity and blending mode options as image layers and can be rearranged, deleted, hidden and duplicated in the same manner as image layers. Click the icon and select an option to create a new fill or adjustment layer.

K) **Create New Group** -This option helps to organize images with multiple layers. Click the icon to create a folder for several layers.

L) **Create New Layer** -Click this icon to create a new layer.

M) **Delete Layer** -To delete a layer, select a layer in the **Layers** palette and drag it to the **trash can** icon; or, select a layer and click the icon.

## 4. Toolbox



If you used other Adobe products, such as Illustrator or InDesign, you should be familiar with the toolbox in Adobe Photoshop CS5 as it shares some of the tools from these applications. If you are a new user of Adobe products, you should keep in mind that you might not need to use all of the tools. In this tutorial, only the basic tools will be discussed in depth.

Some tools in the toolbar have additional “hidden” tools. These tools have small black triangles in the right-hand corner. To view the “hidden” tools, click and hold down on any tool that has a black triangle in the corner (Figure 10).

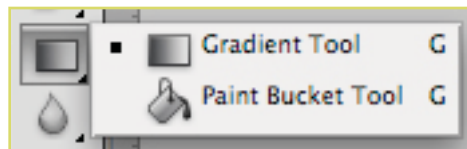


Figure 10. “Hidden” tools

## 5. Selection Tools

### Move



Used to select and move objects on the page.

Click the tool button, then click on any object on the page you wish to move.

### Marquee



Selects an object by drawing a rectangle or an ellipse around it.

Click the tool button, choose a rectangular or an elliptical marquee. Drag the marquee over the area of the image you wish to select.

### Lasso



Selects an object by drawing a freehand border around it.

Click the tool button, drag to draw a freehand border around the area of the image you wish to select.

### Magic Wand



Selects all objects in a document with the same or similar fill color, stroke weight, stroke color, opacity or blending mode. By specifying the color range or tolerance, you can control what the Magic Wand tool selects.

### Crop



Click the tool button, then click and drag the tool over the part of the image that you want to keep. Resize the selected area dragging the squares at the sides and corners. Click the **Return/Enter** key when your crop box is sized correctly.

### Eye Dropper



Takes color samples from colors on the page and displays them in the **Color Boxes**.

Select the tool, click on the color in the image you wish to sample. The **Color Box** will display this color.

## 6. Alteration Tools

### Healing Brush



Corrects small blemishes in scanned photos.

Select the tool, hold down the **ALT** key and left-click on the base color you need to heal. Then left-click over the blemish.

### Brush



Draws brush strokes of different thicknesses and colors.

Select the tool. Then click on the selected area, drag to draw lines. Use the **Options** bar to change the **brush**, **mode**, **opacity** and **flow**.

### Clone Stamp



Takes a sample of an image and applies over another image, or a part of the same image.

Select the tool. Hold down the **ALT** key and left-click on a certain point of the document where you want to start your copy point. Then, put your mouse over whatever part of the new document you want the picture to go to. Hold down the left mouse button and drag the mouse across the page to copy the picture.

### Art History Brush



Paints over an image using the source data from a specified history state or snapshot.

Select the tool, specify the **brush**, **blending mode**, **opacity**, **style**, **area** and **tolerance**.

### Eraser



Removes part of an existing path or stroke. You can use the **Erase** tool on paths, but not on text.

Select the tool, click on the part of the image you wish to erase. Drag to erase pixels.

### Gradient



Applies a gradient fill to a selected part of the image or to an entire layer.

Select an area you wish to apply gradient to, click the tool button, choose a fill in the **Options** bar, click on the starting point, and hold the mouse down and drag to the end point.

### Blur



Blurs the sharp edges of an image.

Select an area where you wish to apply the tool. Click the tool button and choose the **brush**, **mode**, and **strength**. Drag the brush along the edges.

## 7. Drawing and Selection Tools

### Path Selection



Selects paths and path segments.

Select the tool, click anywhere on the path.

### Type



Types text on a page. Every time you click the **Type Tool** on a new portion of the page a new layer will be created.

Select the tool, click on the page and begin to type. You can specify the font and size in the Options bar. You can also resize and transform the text box by dragging the squares at the sides and corners. Use the **Move Tool** to move the text on the page.

### Pen



Draws smooth-edged paths.

Select the tool, click on the page and drag to draw a path. Click and drag the anchor points to modify the path.

### Line Shape



Draws a straight line. Other shapes that are hidden in this tool are: Rounded Rectangle Tool, Ellipse Tool, Polygon Tool, Line Tool, and Custom Shape Tool.

Select the tool, click and drag on the page to draw a line.

## 8. Assisting Tools

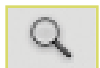
### Hand



Allows you to move around within the image.

Select the tool, click on the spot on the page, hold the mouse button down, drag to move in the area.

### Magnify

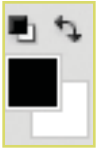


Magnifies or reduces the display of any area in your image window.

Select the tool, choose **Zoom In** or **Zoom Out** in the **Options** bar, click on the area of the image you wish to magnify or reduce.

## 9. Color Boxes and Modes

### Color Boxes



The foreground color appears in the upper color selection box and represents a color that is currently active. The background color appears in the lower box and represents an inactive color.

1. To change the foreground color, click the upper color selection box in the **Toolbox**.
2. To change the background color, click the lower color selection box in the **Toolbox**.
3. To reverse the foreground and background colors, click the **Switch Colors** icon (the arrow) in the toolbox.
4. To restore the default foreground and background colors, click the **Default Colors** icon (the little black and white boxes) in the toolbox.

**Note:** If you are using the **Gradient Tool**, the currently selected foreground and background colors will be the default colors of the gradient.

## 10. Basic Image Editing

Now that you know how to find your way around in the Adobe Photoshop CS5 interface and are familiar with the most common commands, palletes, and tools, you can start doing some basic image editing. In the next few chapters of this tutorial you will learn how to crop, resize, correct, and sharp/blur your images.

# 11. Cropping

Cropping is one of the most basic editing techniques that can improve your images. Cropping helps to bring out the most important features in your image and focus the viewers' attention on these features. Cropping also allows you to make your image a standard photo size.

There are several ways to crop images in Adobe Photoshop:

1. Cropping with the **Crop Tool**
2. Cropping to a specific size
3. Cropping with the **Marquee Tool**

## Cropping with the Crop Tool

The **Crop Tool** allows you to make a precise selection of an image you wish to edit. To crop with the **Crop Tool**, follow these steps:

1. Open the image you wish to crop (see Getting Started for detailed instructions).
2. Select the **Crop Tool** from the **Toolbox** (see Selection Tools for location and description).
3. Click on your image once and drag the mouse out to make a cropping border (See Figure 11).

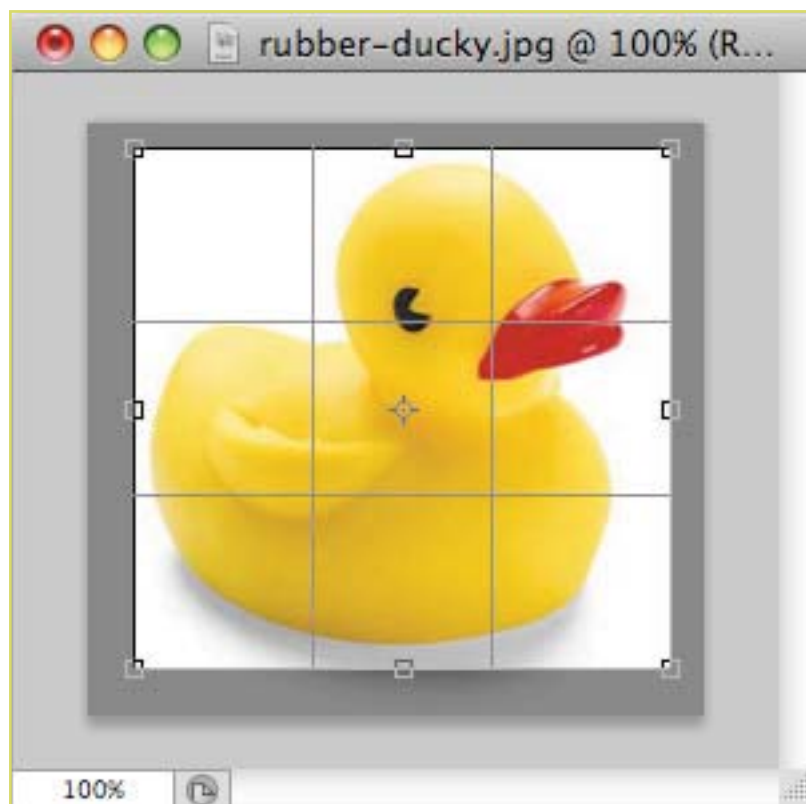


Figure 11. Cropping border

4. Resize the border by dragging the squares at the sides and corners till you are satisfied with the way your image looks.

5. Once you are completely satisfied with your cropped image, press **Enter**.

**Note:** You can also rotate your cropping border. Move the cursor outside the border, you will see how it turns into a double-headed arrow (Figure 12). Drag the arrows in the directions you wish to rotate your selection.

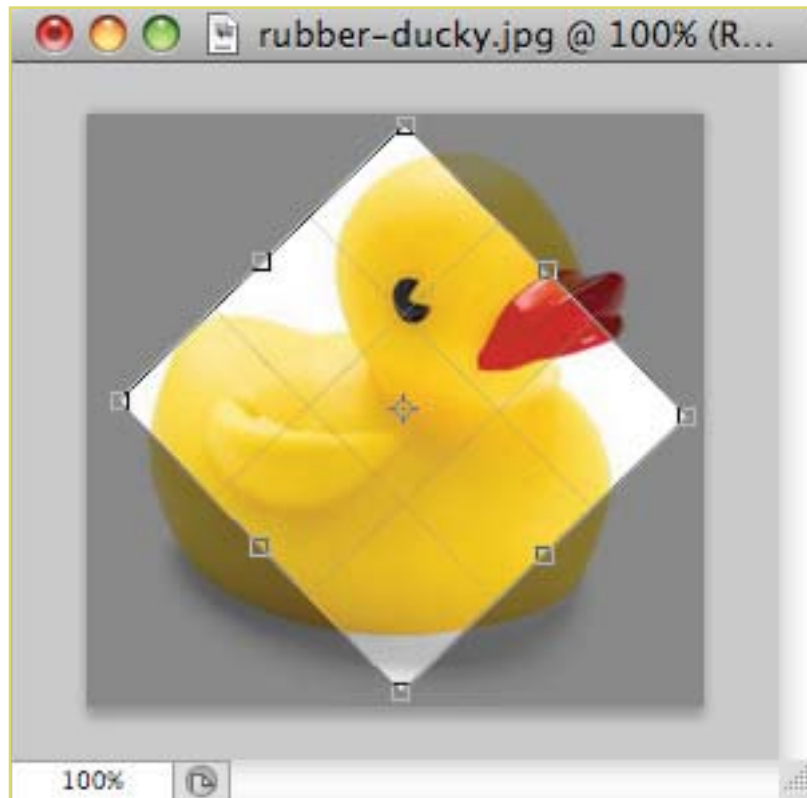


Figure 12. Rotating the cropping border

## Cropping to a specific size

If you wish to print your digital photos or other images on standard size photo paper, you will have to crop your images to a specific size, such as 8x10. To crop an image to a specific size, do the following:

1. Open the image you wish to crop.
2. Select the **Crop Tool** from the **Toolbox**.
3. In the Options bar, specify the values for **Width** and **Height** (Figure 13).

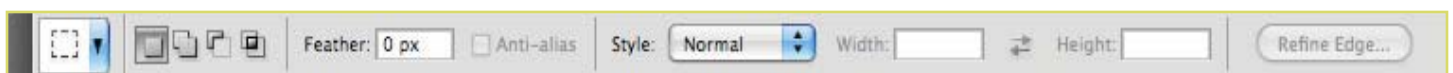


Figure 13. Crop Tool Options bar

4. Click in your image and drag the cropping border. Notice that the border is constrained -you cannot make it wider or longer than the specified values (Figure 14). For example, if you entered 8 for **Width** and 10 for **Height**, whatever size you make the border, the area within it will fit on an 8x10 photo.



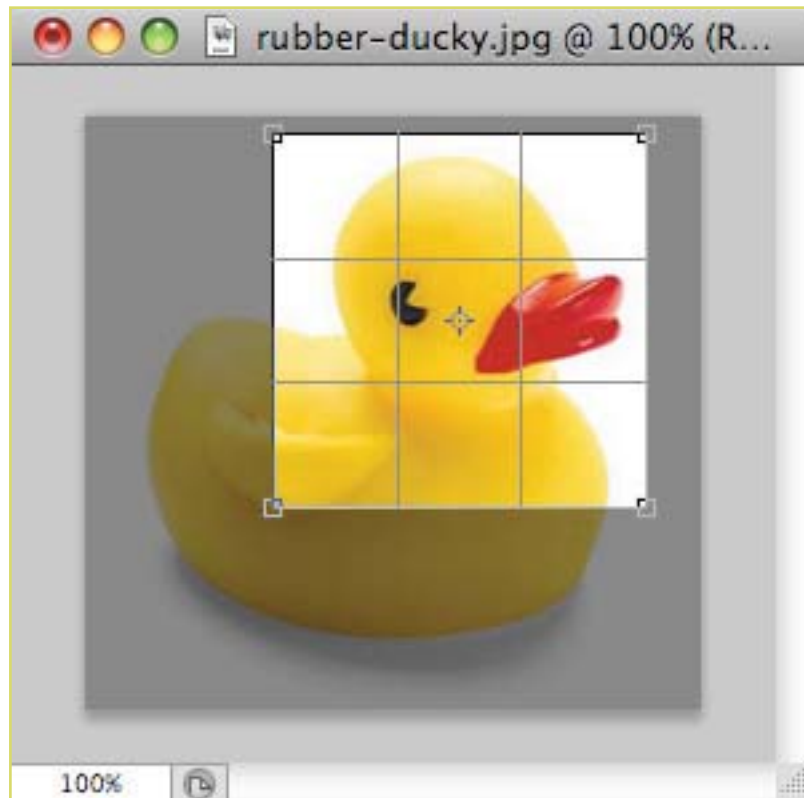


Figure 14. Cropping to a specific size

5. Once you are completely satisfied with your cropped image, press **Enter**.

### Cropping with the Marquee Tool

If you are in a hurry and need just a simple crop, you can use the **Marquee Tool** and a menu command. To crop with the **Marquee Tool**, follow the steps below:

1. Open the image you wish to crop.
2. Select the **Rectangular Marquee Tool** from the **Toolbox** (see Selection Tools).
3. Click and drag the mouse to draw a marquee around the area you wish to crop (Figure 15).

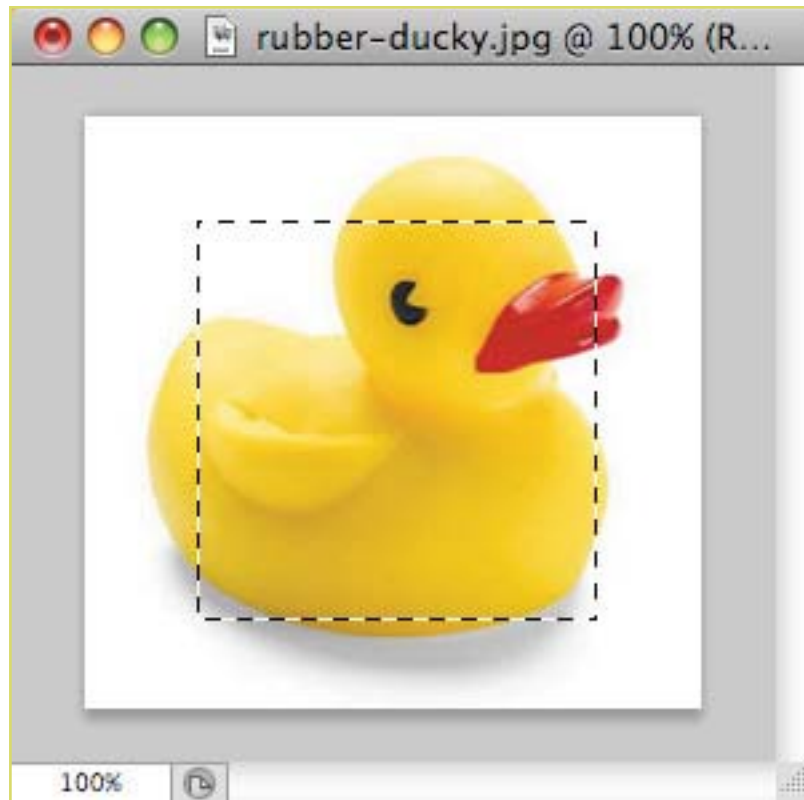


Figure I5. Drawing a marquee

4. In the main menu, go to **Image > Crop** (Figure I6). The image will be immediately cropped.

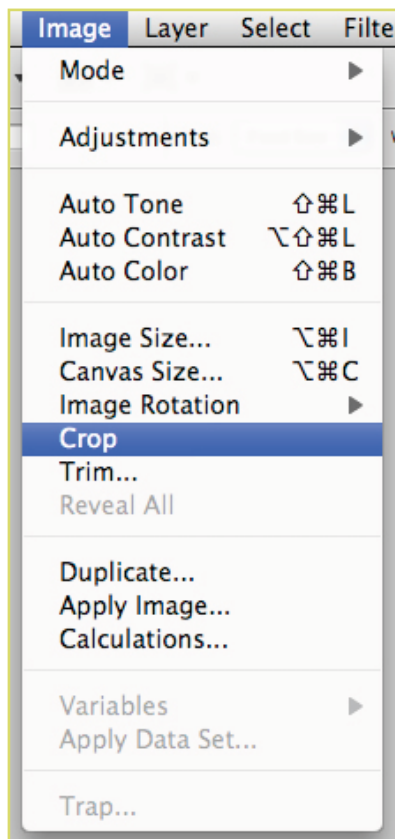


Figure I6. **Image > Crop**

## 12. Resizing

Resizing in Photoshop can help you print your images in standard photo sizes, resize and preserve the high quality of digital photos, and enlarge small images to a poster size.

### Resizing to a specific size

To resize your image to a preset size, follow the steps below:

1. In the main menu, go to **File > New**.
2. In the **New** dialog box, click on the **Preset** dropdown menu. You will see several preset sizes, such as 2x3, 4x6 and 5x7 with the preset resolution of 300 ppi (Figure 17).



Figure 17. Preset size in the New dialog box

3. Choose the size that you wish and click **OK**.

**Note:** All the preset sizes are in portrait orientation. If you wish to resize an image with the landscape orientation, you need to create your own preset. To create your own size, do the following:

1. Type in the values for **Width** and **Height**, for example 7x5.
2. Type in your desired resolution (150 ppi for high quality prints, and 72 ppi is good for web images).
3. Click the **Save Preset** button

## Resizing digital photos

Digital photos usually have large dimensions but low resolution, 72 ppi, which effects their quality when their size is decreased or increased. When printed, the photos with the changed size will look pixilated. To resize the digital photos without loosing the quality, follow these steps:

1. Open the digital photo you wish to resize.
2. In the main menu, go to **View > Rulers**. You will see the dimension of your photo (Figure 18).

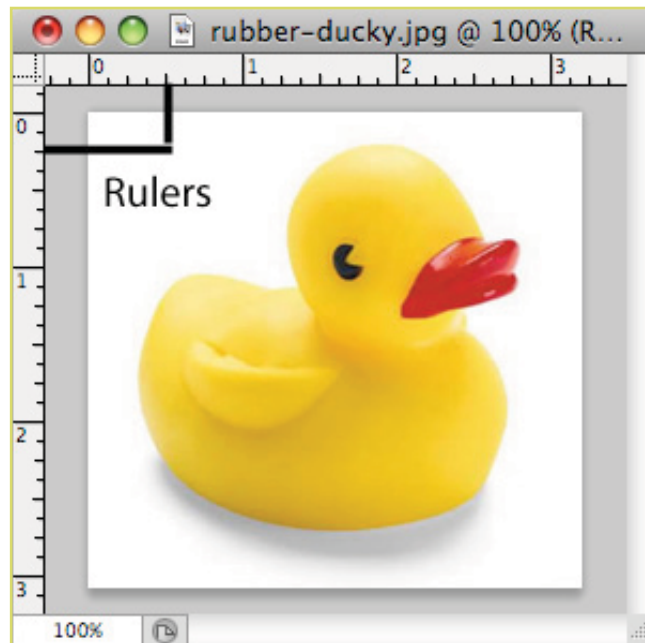


Figure 18. Dimensions of a digital photo

3. In the main menu, go to **Image > Image Size**.
4. In the **Image Size** dialog box, check the **Resample Image** box off (Figure 19). Type in your desired resolution (anything between 150 and 300 ppi). The photo is now 3.208 x 3.083 inches.

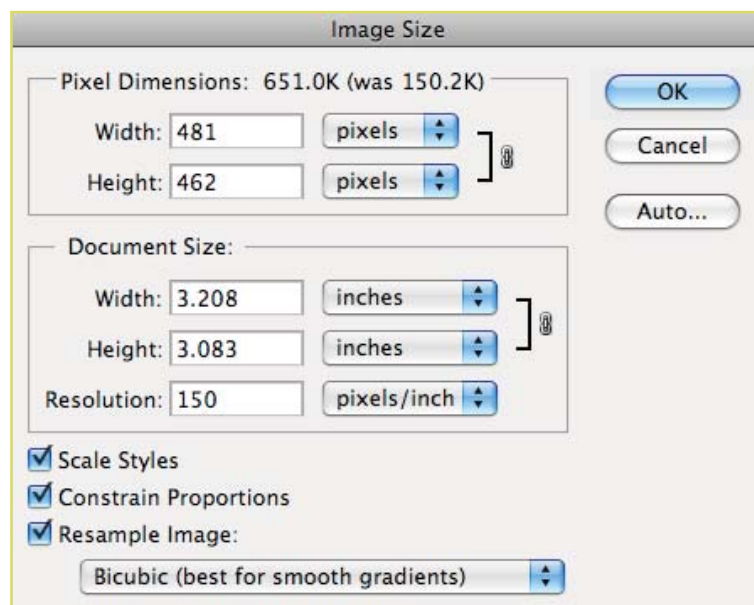


Figure 19. Changing resolution

## Enlarging

If you want to make your digital photo into a poster size image, you can do it in the Image Size dialog box. However, just increasing the dimensions will make the image appear blurry and pixilated. To enlarge the image without losing the quality, follow these steps:

1. Open the digital image you wish to enlarge.
2. In the main menu, go to **Image > Image Size**.
3. In the **Image Size** dialog box, make sure the **Resample Image** box is checked off and choose **Bicubic Smoother** from the dropdown box (Figure 20).

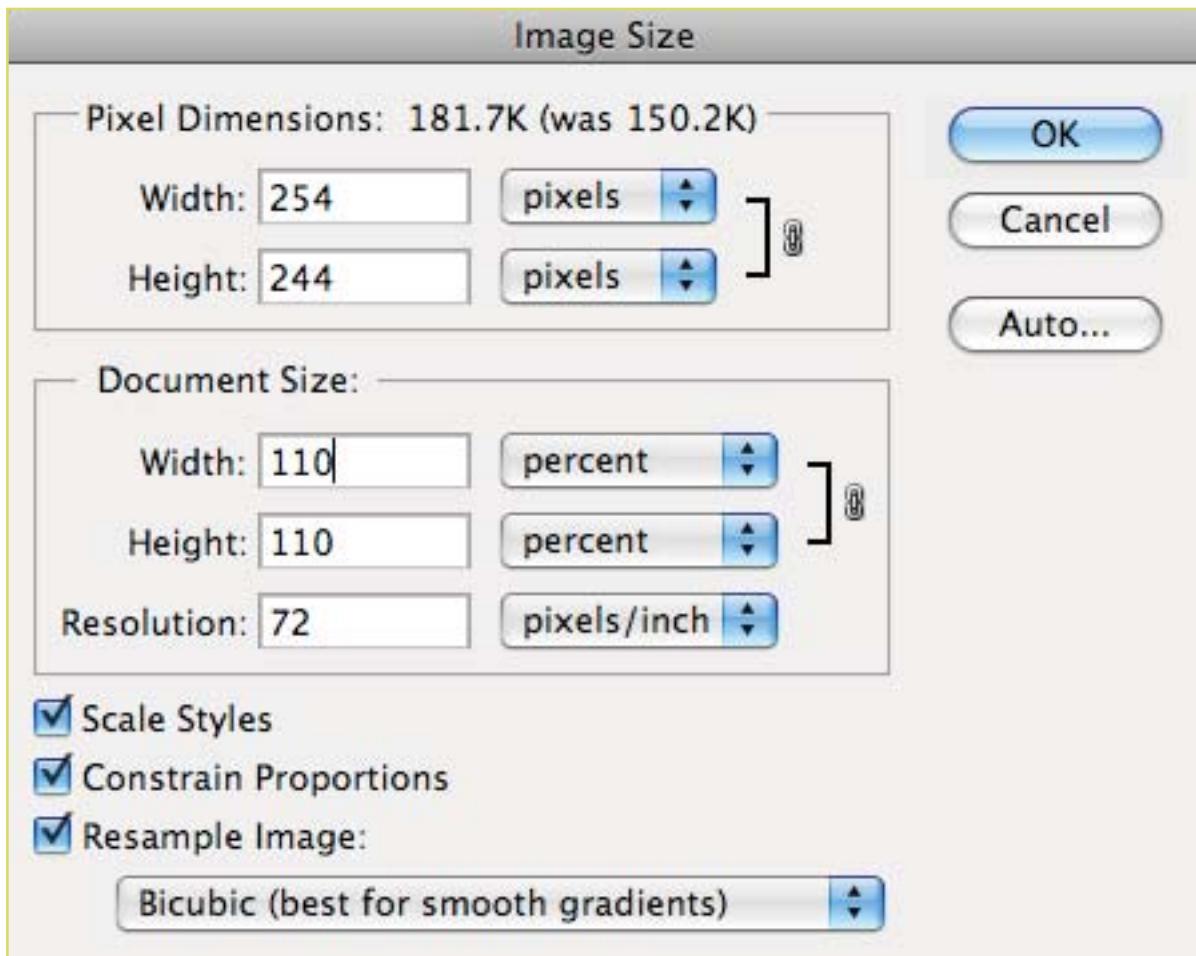


Figure 20. Increasing the size by 10 percent

4. Change the **Document Size** measurements to **Percent**. Type in 110; this will increase the size of the image by 10 percent (Figure 20).
5. Continue enlarging by 10 percent till you are satisfied with the size.

## 13. Correcting

Digital cameras tend to cause various problems, such as “red eye” or “hot spots”, if you use flash, or underexposure, if you don’t. In Photoshop, you can correct these problems, as well as adjust the overall color of your digital photo.

### Red Eye Removal

The digital camera flash is located right above the lens, which causes the “red-eye”; however, you can fix your photos easily in Photoshop. To remove the “red eye”, follow the steps below:

1. Open a photo you wish to correct.
2. Select the **Zoom Tool** from the **Toolbox**. Click and drag a rectangle around the eye (Figure 21).

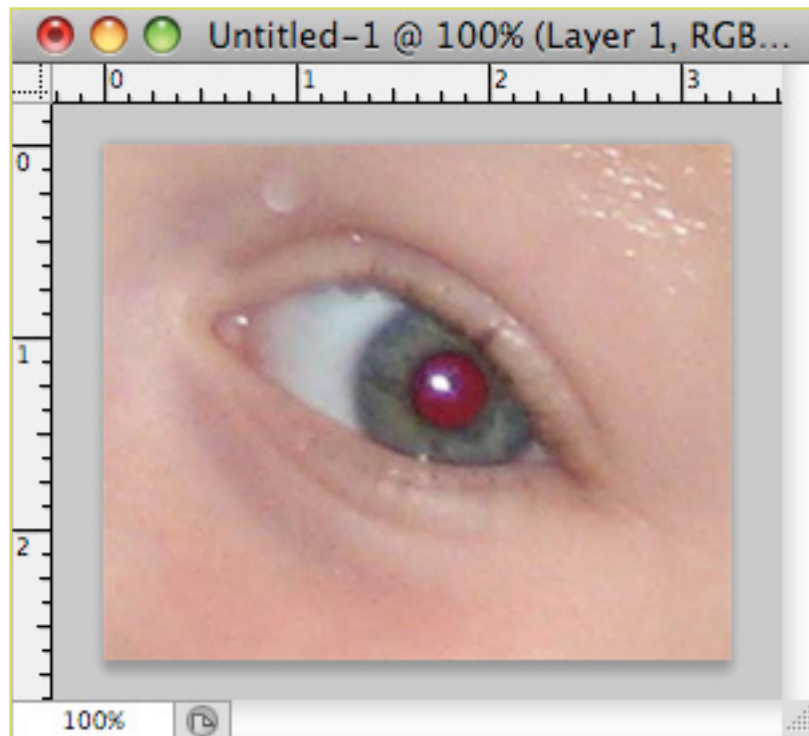


Figure 21. Red eye zoomed in

3. Make sure your default **Foreground** and **Background** colors are black and white.



4. Click and hold on the little black triangle of the **Healing Brush Tool** button and select the **Red Eye Tool**. (Figure 22).

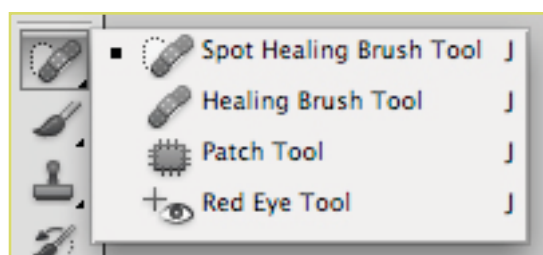


Figure 22. Red Eye Tool

5. Click on the red part of the eye and paint, holding down the mouse button. You will see how the red will disappear (Figure 23).

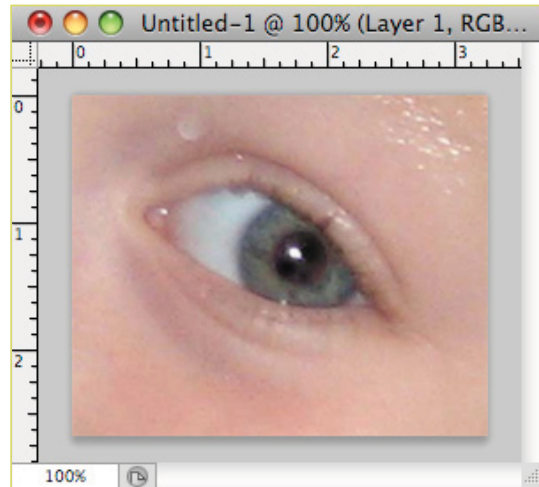


Figure 23. Red eye corrected

### Hot Spot Removal

Using a flash can also cause another problem -shiny areas on people's faces or the flash reflection in the shiny surfaces. To correct this problem, follow the steps below:

1. Open the photo you wish to correct.
2. Select the **Clone Stamp Tool** from the **Toolbox**.
3. In the Options bar, change the **Blend Mode** from **Normal** to **Darken** (Figure 24).



Figure 24. Setting the options for the Clone Stamp Tool

4. Set the **Opacity** to 50 percent.
5. Choose a soft-edged brush, set the diameter to 40 or 50.
6. tHold down the **Shift** key and click in the clean area (without "hot spots") to get a sample of color (Figure 25).



Figure 25. Clone Stamp selection

7. Paint over the "hot spot", the light area will gradually darken (Figure 26).



Figure 26. Corrected image



## Adding Flash

If you took pictures indoors without a flash they will turn out underexposed and dark; in Photoshop, you can make your photos lighter. To fix underexposed photos, follow these steps:

1. Open a digital photo you wish to correct (Figure 27).



Figure 27. Underexposed photo

2. In the main menu, go to **Layers > Duplicate**. In the next window, name the layer **Layer 1**.
3. Make sure **Layer 1** is selected in the **Layers** palette. In the **Blending Mode** drop down box, change the **Blending Mode** to **Screen** (Figure 28). The whole image will lighten.

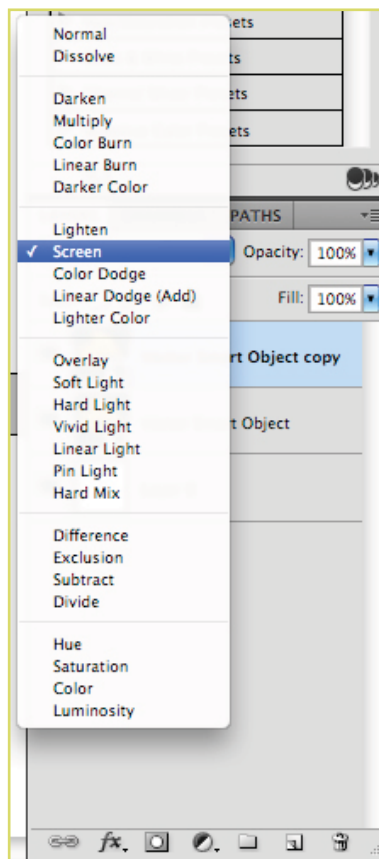


Figure 28. Changing the Blending Mode



4. Keep duplicating Layer 1 till you are satisfied with the your image (Figure 29).



Figure 29. Corrected photo

### Color Adjustment

Color adjustment options in Photoshop CS5 can help you to make your digital photos look more natural. To color correct your images, follow these steps:

1. Open the image you wish to correct.
2. In the main menu, go to **Image > Adjustments > Levels**. You will see a dialog box displaying a diagram of the colors in your image (Figure 30). The black triangle is for shadows, the gray is for midtones, the white is for highlights. In the **Channels** dropdown menu, you can choose between RGB, Red, Green, or Blue. These indicate whether your changes effect all the colors, or just one (red, green, or blue).

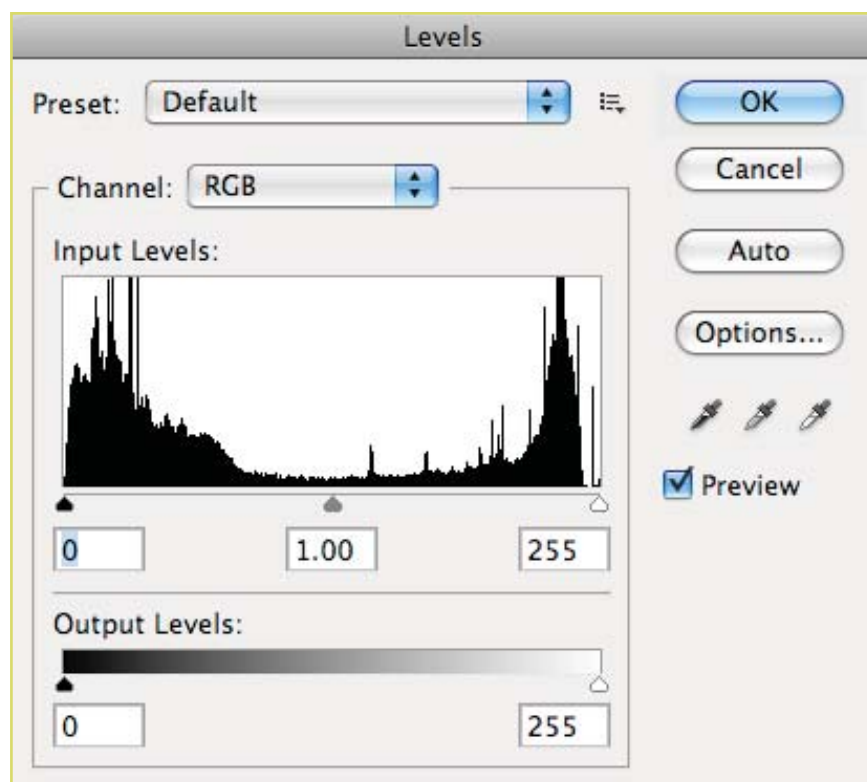


Figure 30. Levels dialog box

3. Make sure the **Preview** box is checked off. Choose the channel you wish to change and drag the triangles. Dragging the black triangle to the right will make the shadows in your photo darker; dragging the white triangle to the left will make the highlights in your photo lighter; dragging the gray triangle to the left will make the midtones in your photo lighter, dragging it to the right will make the midtones darker. You will be able to see the changes in your image.



Figure 31. Underexposed photo



Figure 32. Corrected photo

## 14. Saving

Remember to save your work often. Saving frequently lessens the risk of losing the work you have been doing. To save your Photoshop document, do the following:

1. Click **File > Save**.
2. Navigate to the place you would like your document to be saved by using the drop down menu and the navigation window.
3. Enter the name of your document in the **Save As** text field.
4. Choose a format to save your project in from the **Format** dropdown menu. (Figure 33)

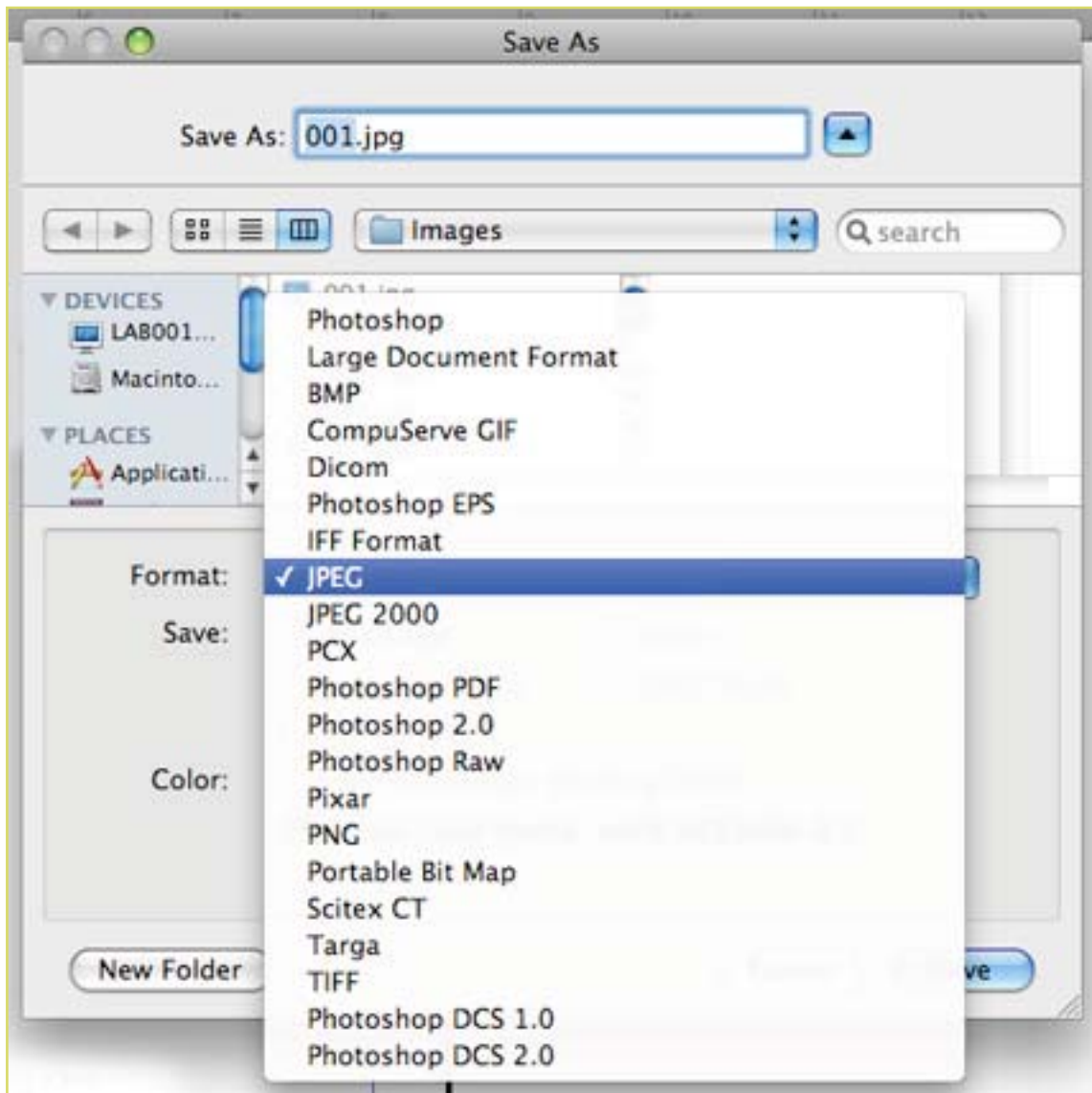


Figure 33. Saving a document

5. Click the Save button in the bottom right corner of the dialogue box.
6. Check to make sure that your document is saved in the place you intended.

**Note:** If you save your file as PSD (default Photoshop saving format) your layers will be preserved, but the file size will be large. If you save your file as JPEG (a common image format) your layers will be flattened and become one layer. The file size though will be significantly smaller.